

ABSTRACT OF THE DISCLOSURE**METHODS FOR PRODUCING UNSATURATED CARBOXYLIC ACIDS
AND UNSATURATED NITRILES**

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Unsaturated carboxylic acids are produced by the vapor phase catalytic oxidation of mixtures of alkenes and alkanes in the presence of a catalyst containing a mixed metal oxide. Similarly, unsaturated nitriles are produced by the vapor phase catalytic oxidation of alkenes or mixtures of alkenes and alkanes 10 and ammonia in the presence of a catalyst containing a mixed metal oxide.